

**DISK DRIVE INCLUDING AN AUXILIARY PULSE WIDTH
MODULATION (PWM) CONTROL CIRCUIT AND RELATED METHODS**

Abstract of the Disclosure

A disk drive may include a housing, and a rotatable data storage disk and associated disk drive motor carried by the housing for rotating the rotatable data storage disk. The disk drive may also include a movable arm and associated arm drive motor carried by the housing for moving the arm adjacent to the rotatable data storage disk. Further, at least one read/write head may be carried by the arm, and a driving circuit may be included for the arm drive motor. The driving circuit may include at least one output stage connected to a power supply for driving the arm drive motor, at least one capacitor connected to the power supply, and an auxiliary pulse width modulation (PWM) control circuit connected to the at least one capacitor for driving the at least one output stage in a PWM mode after the power supply is switched off.